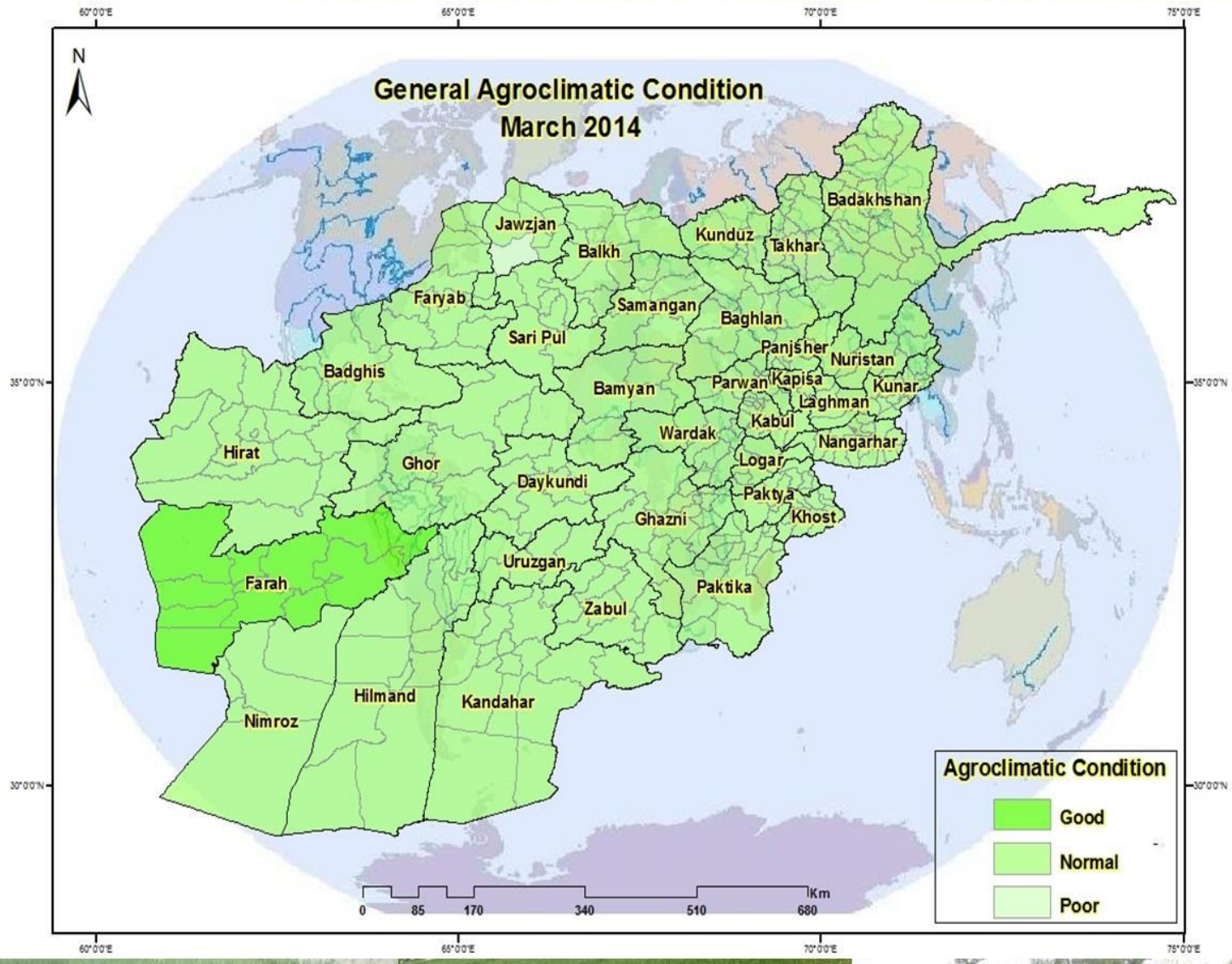
Issue No: 109
March: 2014

The fghanistan grometeorological AAM onthly Bulletin

Topics Crop Information Precipitation Temperature NDVI



Adverse Factor 1

Crop Condition 2

Crop Stage 3

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BULLETIN

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Data Source:

Ministry of Agriculture , Irrigation and Livestock (MAIL), Agromet Project and United States Geological Survey (USGS).

Summary

In entire country growth of wheat is satisfactory. However weeds, more rainfall and poor rainfall have been reported in a few areas such as Paghman and Surubi district of Kabul province, Asmar and Asad Abad district of Kunar Province, Waigal district of Nuristan province, Qaliazal district of Kunduz province, Khost and Ali Sher district of Khost province, Trinkot district of Urozgan Province, Sheberghan district of Jawzjan Province and center of Hirat province. The crop is reported at emergence and vegetative stages in most parts of the country such as Parwan, Bamyan, Khost and Paktika Provinces. The crop is at flowering and dormancy stages in some parts of the country Such as Paktya, Laghman and Kunar Provinces.

During the month of March 2014, above normal rainfall was reported in most parts of the country such as Bamyan, Kabul, Khost and Kandahar provinces. Whereas below normal in few parts such as Takhar, Nuristan and Badghis provinces. Number of rainy days recorded in the country range from 1 – 14 days. The maximum number of rainy days in the country was observed 13 at Jawzjan Province.

Crop Stage, Crop Condition and Adverse Factor

Zone	Province	District	Station	Wheat		
				Crop Stage	Crop Condition	Adverse Factor
Central	Kabul	Paghman	Paghman	Vegetative	Normal	More Rainfall
		Kabul	Darulaman	Emergence	Normal	Not Existed
		Surubi	Surubi	Flowering	Normal	Weeds
	Panjsher	Dara	Dara	**Dormancy**		
		Dashtak	Dashtak	**Planting**		
	Parwan	Syagerd	Gorband	Vegetative	Normal	Not Existed
		Charikar	Charikar	Vegetative	Good	Not Existed
	Kapisa	Mahmoodraqi	Mahmoodraqi	Vegetative	Normal	Not Existed
		Kohistan	Kohistan	Vegetative	Normal	Not Existed
	Wardak	Maidan shehr	Maidan shehr	Emergence	Normal	Not Existed
		Sayed Abad	Sayed Abad	Emergence	Normal	Not Existed
	Logar	Pole Alam	Pole Alam	Vegetative	Normal	Not Existed
	Bamyan	Bamyan	Bamyan	Emergence	Normal	Not Existed
		Yakawlang	Yakawlang	Emergence	Normal	Not Existed
		Shebar	Shebar	**Dormancy**		
		Kohmard	Kohmard	Emergence	Normal	Not Existed
	Ghazni	Andar	Bande Sardi	**Planting**		
		Muqar	Muqar			
	Dikondy	Dasht	Nili	Emergence	Normal	Not Existed
		Khideer	Khideer	Emergence	Normal	Not Existed
East	Nangarhar	Agam	Agam	Vegetative	Normal	Not Existed
		Batikot	Ghaziabad	Flowering	Normal	Not Existed
		Jalalabad	Farm jaded	Flowering	Normal	Not Existed

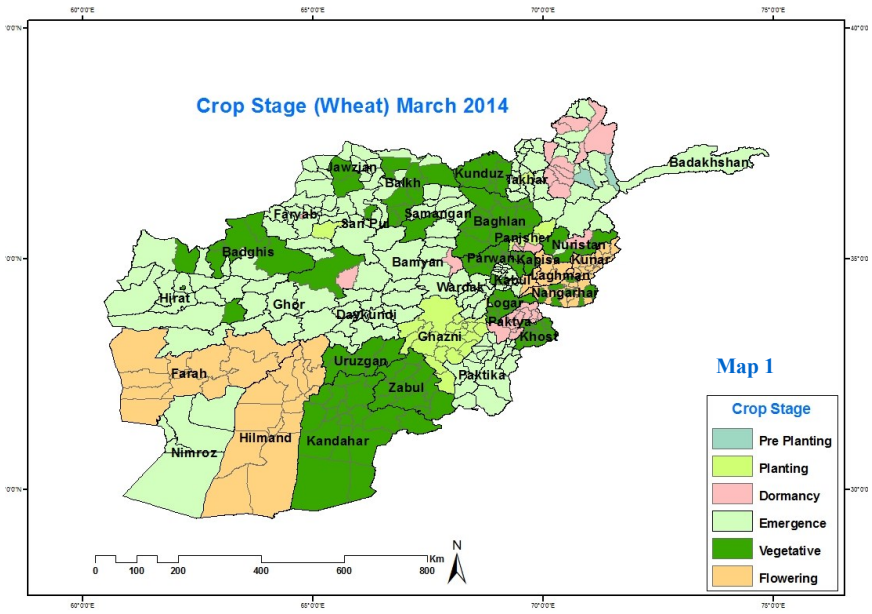
Crop Stage, Crop Condition and Adverse Factor

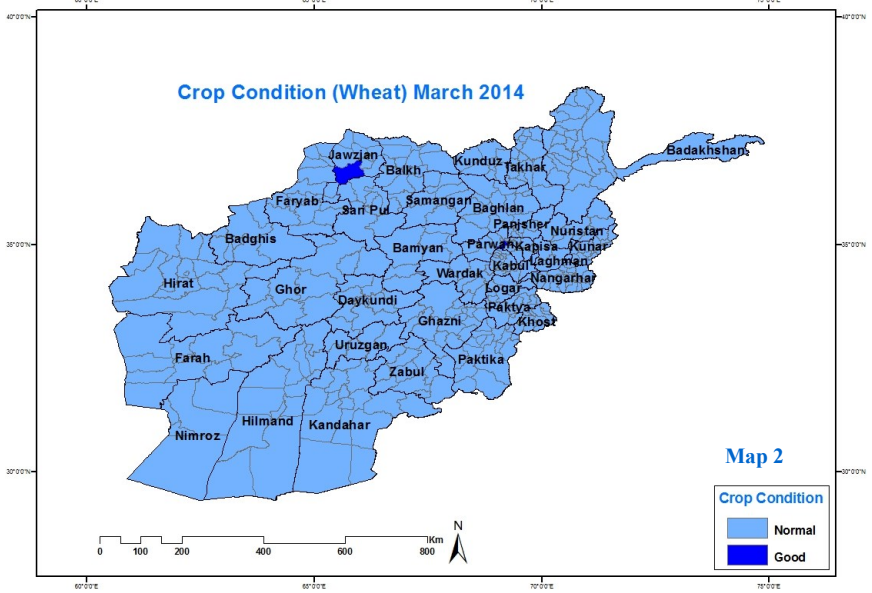
Zone	Province	District	Station	Wheat		
				Crop Stage	Crop Condition	Adverse Factor
East	Kunar	Asmar	Asmar	Flowering	Normal	More Rainfall
		Asad Abad	Asad Abad	Flowering	Normal	More Rainfall
		Chawkay	Chawkay	Flowering	Normal	Not Existed
	Laghman	Mihtarlam	Mihtarlam	Flowering	Normal	Not Existed
		Qarghay	Qarghay	Flowering	Good	Not Existed
		Alengar	Alengar	Flowering	Normal	Not Existed
	Noristan	Paroon	Paroon	**Dormancy**		
		Do Ab	Do Ab	Emergence	Normal	Not Existed
		Norgaram	Norgaram	Vegetative	Normal	Not Existed
		Waigal	Waigal	Vegetative	Normal	Weeds
North East	Takhar	Taluqan	Taluqan	**Planting**		
		Rostaq	Rostaq	Emergence	Normal	Not Existed
		Aqmasjad	Aqmasjad	Emergence	Normal	Not Existed
	Kunduz	Imam Sahib	Imam Sahib	Vegetative	Normal	Not Existed
		Qaliazal	Aqtipa	Vegetative	Normal	Not Existed
		Khan Abad	Khan Abad	Vegetative	Normal	Weeds
		Kunduz	Kunduz	Vegetative	Normal	Not Existed
		Archi	Archi	Vegetative	Normal	Not Existed
		Chardara	Chardara	Vegetative	Normal	Not Existed
		Ali Abad	Ali Abad	Vegetative	Normal	Not Existed
	Baghlan	Pulikhomri	Pozaishan	Vegetative	Normal	Not Existed
		Doshy	Doshy	Vegetative	Normal	Not Existed
	Badakhshan	Eshkashm	Eshkashm	Pre-Planting	Normal	Not Existed
		Baharak	Baharak	Emergence	Normal	Not Existed
		Argo	Argo	**Dormancy**		
		Khash	Khash	Emergence	Normal	Not Existed
		Faiz Abad	Faiz Abad	Emergence	Normal	Poor Rainfall
South East	Khost	Khost	Khost	Vegetative	Normal	More Rainfall
		Khost	Shimal	Vegetative	Normal	More Rainfall
		Ali Sher	Ali Sher	Vegetative	Normal	More Rainfall
	Paktia	Zormat	Rohani Baba	**Dormancy**		
		Gardiz	Tera			
	Paktika	Urgon	Urgon	Emergence	Normal	Not Existed
		Sharana	Sharana	Emergence	Normal	Not Existed
		Khair kot	Khair Kot	Emergence	Normal	Not Existed

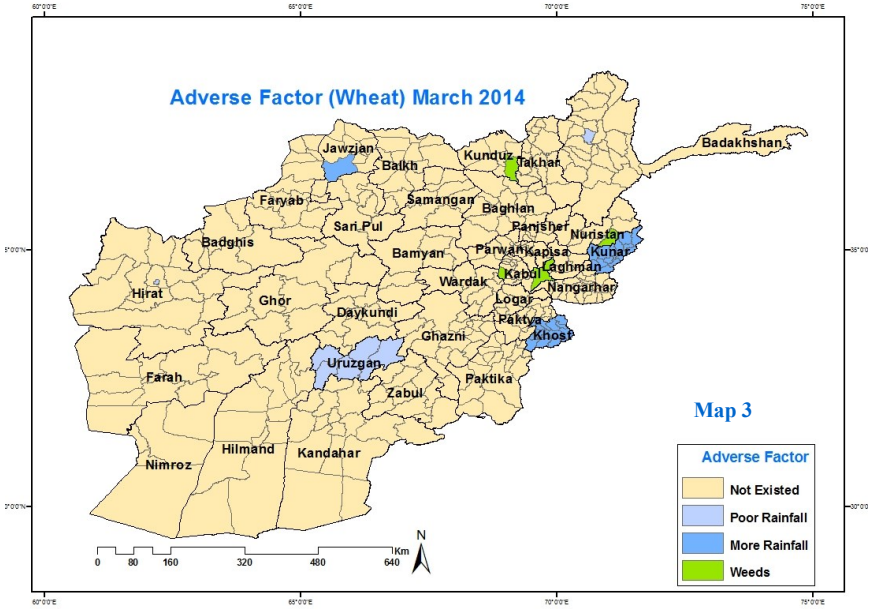
Crop Stage, Crop Condition and Adverse Factor

Zone	Province	District	Station	Wheat		
				Crop Stage	Crop Condition	Adverse Factor
South	Nimroz	Zaranj	Zaranj	Emergence	Normal	Not Existed
	Kandahar	Kandahar	Kandahar	Vegetative	Normal	Not Existed
		Kohkaran	Kohkaran	Vegetative	Normal	Not Existed
	Zabul	Qalat	Qalat	Vegetative	Normal	Not Existed
	Urozgan	Tirin Kot	Tirin Kot	Vegetative	Good	Poor Rainfall
	Hilmand	Nad Ali	Nad Ali	Flowering	Good	Not Existed
		Greshk	Greshk	Flowering	Good	Not Existed
		Nawa	Nawa	Flowering	Good	Not Existed
		Lashkargah	Bolan	Flowering	Good	Not Existed
North	Balkh	Takhta pol	Dehdadi	Vegetative	Normal	Not Existed
		Mazar shareef	Mazare shareef	Emergence	Normal	Not Existed
		Nahrishahi	Nahrishahi	Vegetative	Normal	Not Existed
		Dawlat Abad	Dawlat Abad	Vegetative	Normal	Not Existed
	Jawzjan	Sheberghan	Sheberghan	Vegetative	Good	More Rainfall
		Darzab	Darzab	Emergence	Normal	Not Existed
		Aqcha	Aqcha	Emergence	Normal	Not Existed
	Saripul	Saripul	Saripul	Emergence	Normal	Not Existed
		Sancharak	Sancharak	Emergence	Normal	Not Existed
		Sozmaqala	Sozmaqala	Vegetative	Normal	Not Existed
	Faryab	Andkhoy	Andkhoy	Emergence	Normal	Not Existed
		Garzewan	Garzewan	Planting		
	Samangan	Aibak	Aibak	Emergence	Normal	Not Existed
		Sarbagh	Sarbagh	Emergence	Normal	Not Existed
		Dara Souf	Dara Souf	Vegetative	Normal	Not Existed
North West	Badghis	Maqur	Maqur	Vegetative	Normal	Not Existed
		Qalainow	Qalainow	Vegetative	Normal	Not Existed
	Ghor	Chaghcharan	Chaghcharan	Vegetative	Normal	Not Existed
		Dawlat yar	Dawlat yar	Dormancy		
	Hirat	Shindand	Shindand	Emergence	Normal	Not Existed
		Hirat	Hirat	Vegetative	Normal	Poor Rainfall
		Zindajan	Zindajan	Emergence	Normal	Not Existed
		Gwazara	Falahat	Emergence	Normal	Not Existed
	Farah	Farah	Farah	Flowering	Normal	Not Existed

Wheat Crop Stage, Condition and Adverse Factor Maps





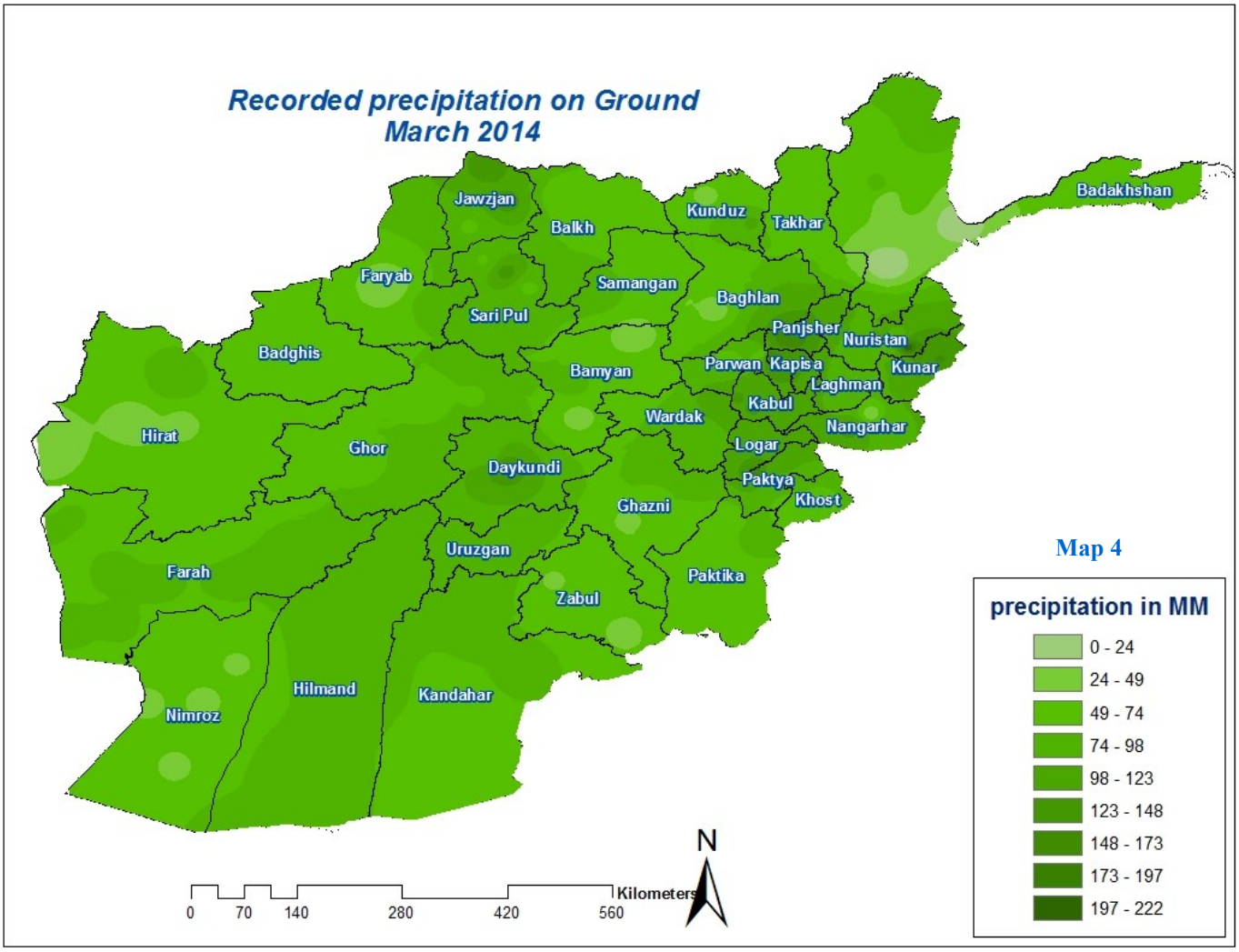


Data Source:Agromet Network

Comparison of monthly rainfall data for the month of March 2014, in contrast to the same month of March 2013, shows significant increase of rainfall in all of the areas aside from only area of Southern region which is Nuristan Province during the month of March 2014, compare to the same month of last year.

Comparison of monthly rainfall data for the month of March 2014 in contrast to the same month of Long Term Average, shows different situation of rainfall in entire country during the month of March 2014 compare to the same month of Long Term Average in most parts of the country. It shows increase of rainfall while in other parts of the country especially in some parts of North East and North West and few areas of East it shows decrease of rainfall during the mention period of time.

widespread rainfall occurred during the month of March 2014, as Map (4) Shows the distribution of rainfall during the month of March 2014, in the entire country as the highest rainfall has occurred in Mahmood Raqi center of Kapisa province which was 186.5 mm.



Map 4

Precipitation

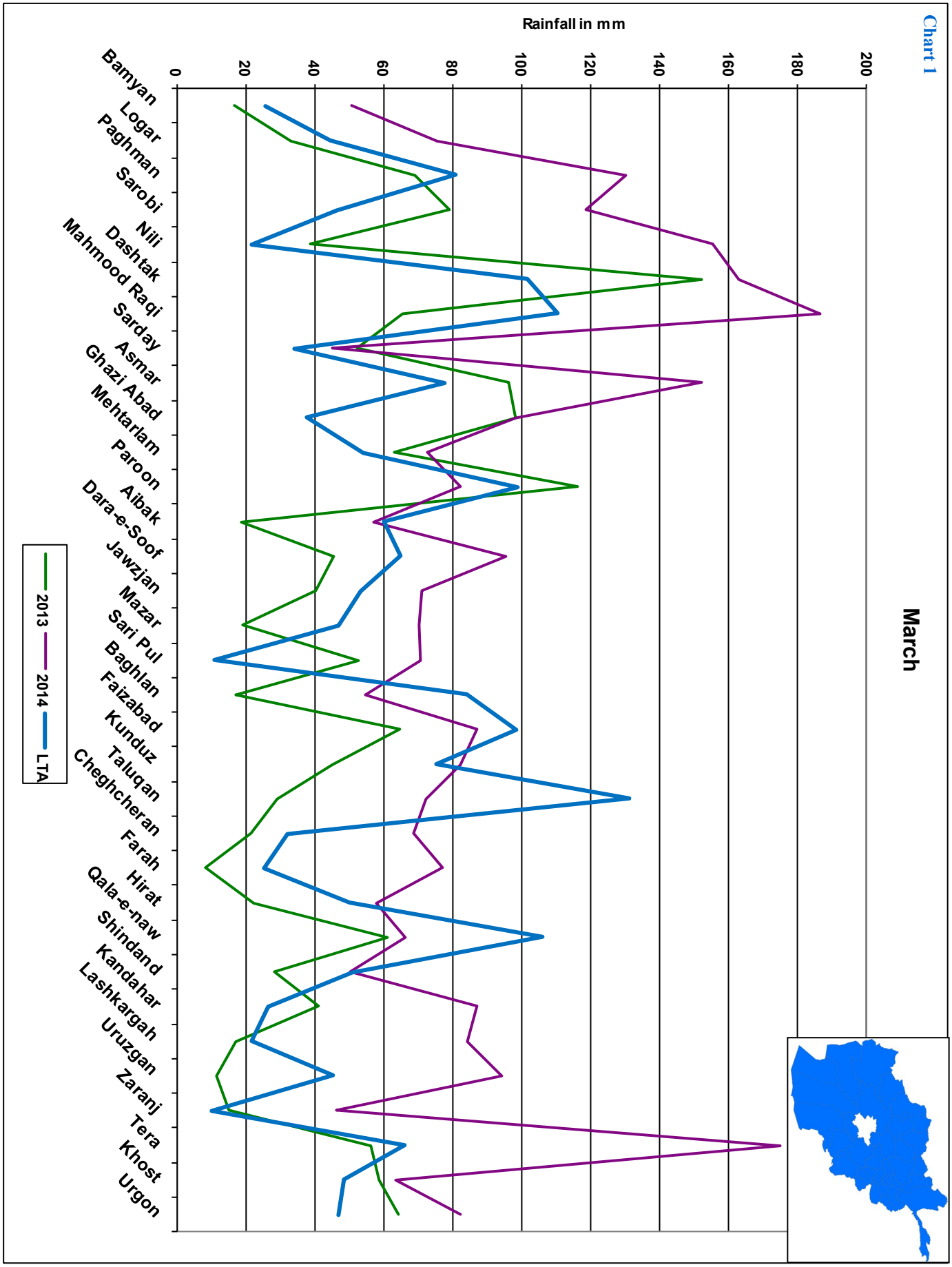
Widespread rainfall occurred during the month of March 2014, As table 1 shows, during the month of March 2014 in central part to the country Bamyan has received 50.6 mm, Logar 75.5 mm, Paghman 130 mm, Sarobi 118.2 mm, Nili 155.2 mm, Dashtak 163 mm, Mahmood Raqi 186.5 mm and Sardy 45mm of precipitation .The highest precipitation has been recorded in Mahmood Raqi center of Kapisa province which is 186.5 mm. In Eastern region Asmar has received 152 mm, Ghazi Abad 98 mm, Mehtarlam 72.5 mm, and Paroon 82 mm. The highest precipitation in this regain has been recorded in Asmar center of Kunar province which is 152 mm. In Northern region Aibak has received 57 mm, Dara-e-Soof 95.4 mm, Jawzan 70.8 mm, Mazar 70 mm, and Sari Pul 70.5 mm, the highest precipitation in this regain has been recorded in Dara-e-Soof district of Samangan province which is 95.4 mm. In North Eastern region Baghlan has received 54.4 mm, Faizabad 87 mm, Taluqan 72 mm, and Kunduz 82 mm, the highest precipitation in the North Eastern region has been recorded in center of Kunduz province which is 82 mm.

In Southern region Kandahar has received 87 mm, Lashkargah 84 mm, Uruzgan 94 mm, and Zaranj 46 mm, the highest precipitation in this region has been recorded in center of Uruzgan province which is 94 mm. In South Eastern region Tera has received 175 mm, Khost 63.2 mm, and Urgon 82 mm. In western region Cheghcheran has received 68.5 mm, Farah 77 mm, Hirat 57.9 mm, Qala-e-Naw 66.3 mm and Shindand 50 mm the highest precipitation in the respected region has been recorded in center of Farah province which is 77 mm. In conclusion we can say that, rainfall has two extremes the high extreme has occurred in Mahmood Raqi center of Kapisa province which is 186.5 mm during the month of March 2014, and the lowest extreme has occurred in center of Zaranj province which is 46 mm during the month of March 2014. For more information regarding the precipitation for the month of March 2014 please, refer to the below table.

Table 3

Station Name	March			Deviation	Comparison	Prediction
	2013	2014	LTA			
Bamyan	16.6	50.6	25.4	25.2	Above Normal	No Dryness
Nili	38.4	155.2	21.7	133.5	Above Normal	No Dryness
Dashtak	152	163	101	61.6	Above Normal	No Dryness
Logar	33	75.5	44.3	31.2	Above Normal	No Dryness
Paghman	69	130	80.9	49.1	Above Normal	No Dryness
Sarobi	79	118.7	46.5	72.2	Above Normal	No Dryness
Mahmood Raqi	65.5	186.5	110	76.1	Above Normal	No Dryness
Rainfall were increased in 2014 with respect to Long Term Average (LTA)						
Asmar	96	152	77.4	74.6	Above Normal	No Dryness
Ghazi Abad	98	98	37.7	60.3	Above Normal	No Dryness
Mehterlam	62.8	72.5	54.1	18.4	Above Normal	No Dryness
Paroon	116	82	98.6	-16.6	Bellow Normal	Dryness
Baghlan	17	54.4	84.1	-29.7	Bellow Normal	Dryness
Faizabad	64.5	87	98.2	-11.2	Bellow Normal	Dryness
Kunduz	45	82	75.3	6.7	Above Normal	No Dryness
Rainfall in Paroon, Baghlan and Faizabad were decreased in 2014 with respect to Long Term Average (LTA)						
Taluqan	29	72	131	-59.1	Bellow Normal	Dryness
Aibak	18.5	57	60	-3	Bellow Normal	Dryness
Dara-e-soof	45.3	95.4	64.8	30.6	Above Normal	No Dryness
Jawzjan	40.1	70.8	53.1	17.7	Above Normal	No Dryness
Mazar	19	70	46.7	23.3	Above Normal	No Dryness
Sari pul	52.5	70.5	10.9	59.6	Above Normal	No Dryness
Kandahar	41	87	26.3	60.7	Above Normal	No Dryness
Lashkargah	17	84	21.7	62.3	Above Normal	No Dryness
Uruzgan	11.5	94	45	49	Above Normal	No Dryness
Rainfall were increased in 2014 with respect to Long Term Average (LTA)						
Zaranj	15	46	9.9	36.1	Above Normal	No Dryness
Tera	56	175	65.9	109.1	Above Normal	No Dryness
Khost	58.6	63.2	48.4	14.8	Above Normal	No Dryness
Sarady	52	45	34	11	Above Normal	No Dryness
Urgon	64	82	46.9	35.1	Above Normal	No Dryness
Cheghcheran	21.5	68.5	31.8	36.7	Above Normal	No Dryness
Farah	8	77	25.3	51.7	Above Normal	No Dryness
Hirat	22	57.9	49.9	8	Above Normal	No Dryness
Qala-e-naw	61	66.3	106	-39.5	Bellow Normal	Dryness
Shindand	28	50	50.8	-0.8	Bellow Normal	Dryness
Rainfall in Qala-e-Now and Shindand were decreased in 2014 with respect to Long Term Average (LTA)						

Chart 1



Data Source:Agromet Network

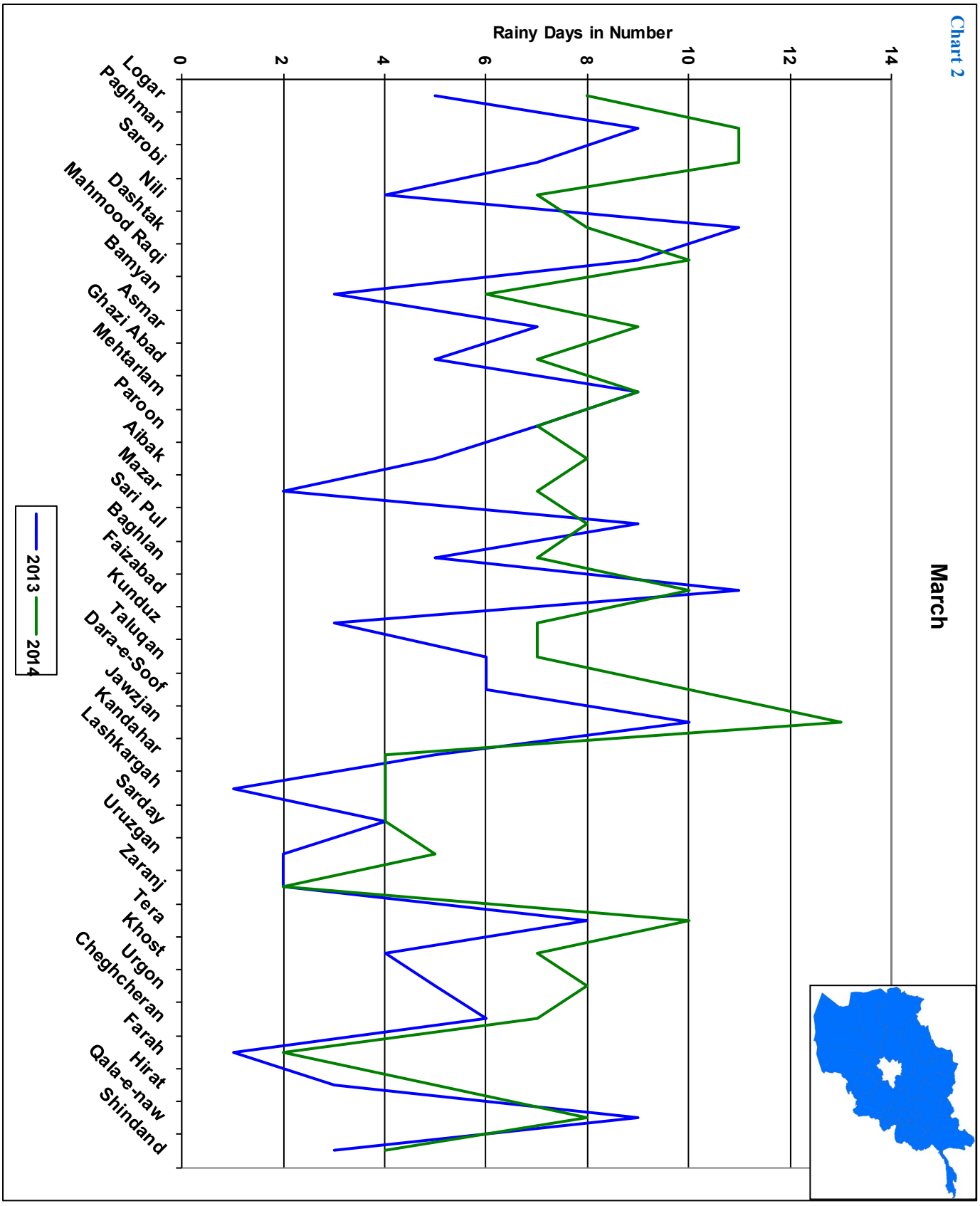
Rainy Days

Based on the bellow table, the areas of Logar, Paghman, Sarobi, Nili, Mahmood raqi, Bamyan, Asmar, Ghazi Abad, Aibak, Mazar, Baghlan, Kunduz, Taluqan, Dara-e-Soof, Jawzjan, Lashkargah, Uruzgan, Shindand, Tera, Khost, Urgon, Cheghcheran, Farah and Hirat having higher number of rainy days during the month of March 2014, compared to the same month in 2013.

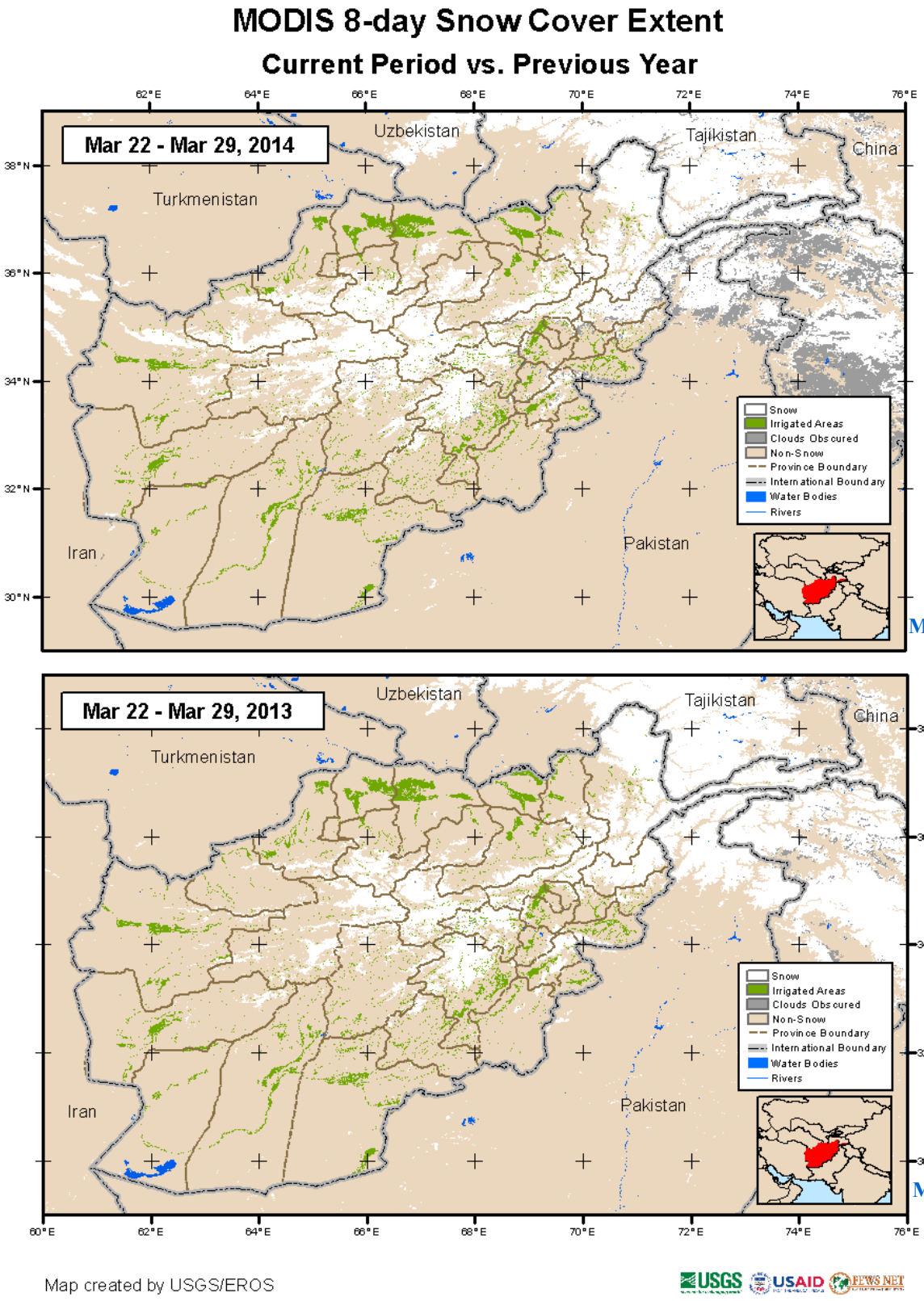
The areas such as, Sari Pul, Faizabad , Qala-e-Naw, Dashtak and Kandahar are the areas with the least number of rainy days in March 2014, in comparison to the same month of 2013. The areas such as Mehtarlam, Paroon, Sarday and Zaranj are the areas that had equal rainy days in comparison to the same month of last year.

Table 2

No	Station Name	March		Comparison Prediction with respect to (2012)
		Rainy Days		
		2013	2014	
1	Dashtak	11	8	Dryness
2	Logar	5	8	No Dryness
3	Paghman	9	11	No Dryness
4	Sarobi	7	11	No Dryness
5	Bamyan	3	6	No Dryness
6	Mahmood Raqi	9	10	No Dryness
7	Nili	4	7	No Dryness
8	Ghaziabad	5	7	No Dryness
9	Asmar	7	9	No Dryness
10	Mehterlam	9	9	No Change
11	Paroon	7	7	No Change
12	Aibak	5	8	No Dryness
13	Mazar	2	7	No Dryness
14	Saripul	9	8	Dryness
15	Baghlan	5	7	No Dryness
16	Faizabad	11	10	Dryness
17	Kunduz	3	7	No Dryness
18	Taluqan	6	7	No Dryness
19	Dara-e-soof	6	10	No Dryness
20	Jawzjan	10	13	No Dryness
22	Kandahar	5	4	Dryness
23	Lashkargah	1	4	No Dryness
24	Sarday	4	4	No Change
25	Uruzgan	2	5	No Dryness
26	Zaranj	2	2	No Change
27	Tera	8	10	No Dryness
28	Khost	4	7	No Dryness
29	Urgon	5	8	No Dryness
30	Cheghcheran	6	7	No Dryness
31	Farah	1	2	No Dryness
32	Hirat	3	5	No Dryness
33	Qala-e-naw	9	8	Dryness
34	Shindand	3	4	No Dryness



Comparison of rainy days for the month of March 2014, with the same month of last year (Chart 2) shows significant increase of rainy days compared to the same month of last year aside from few parts of the Central, North and North East.

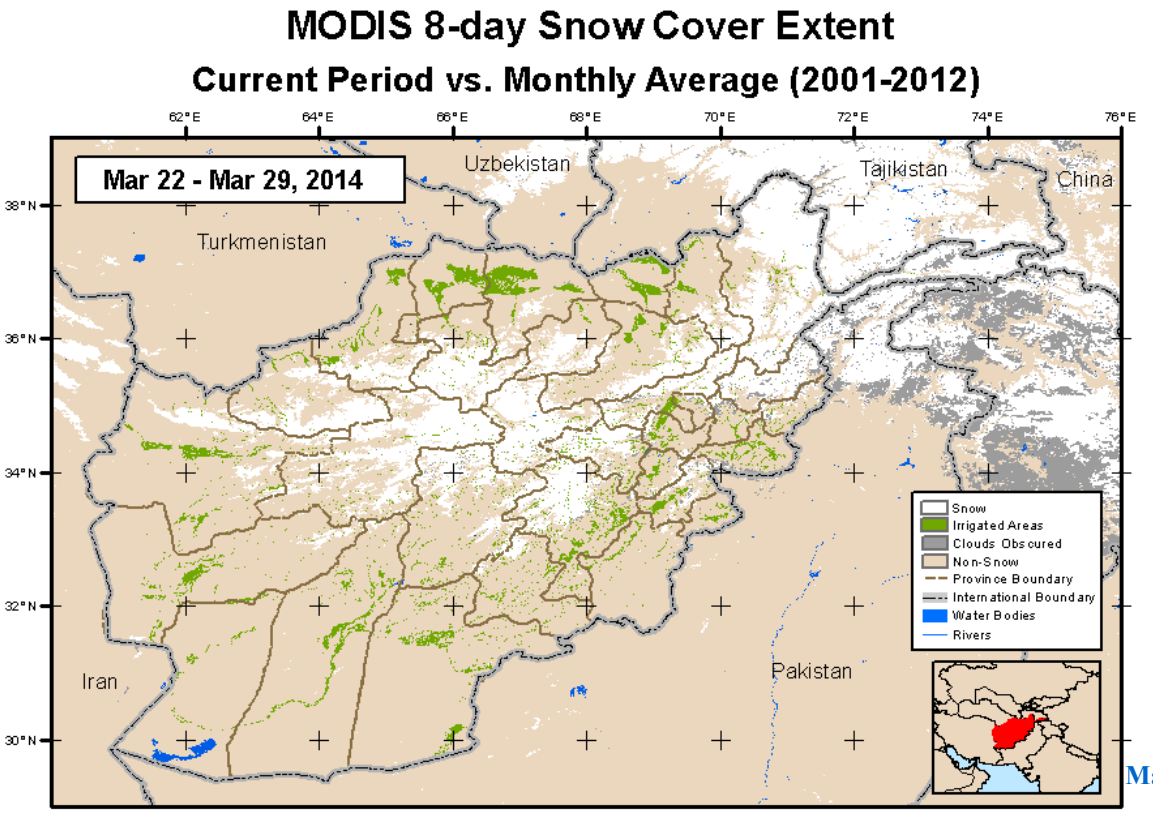


Map 5

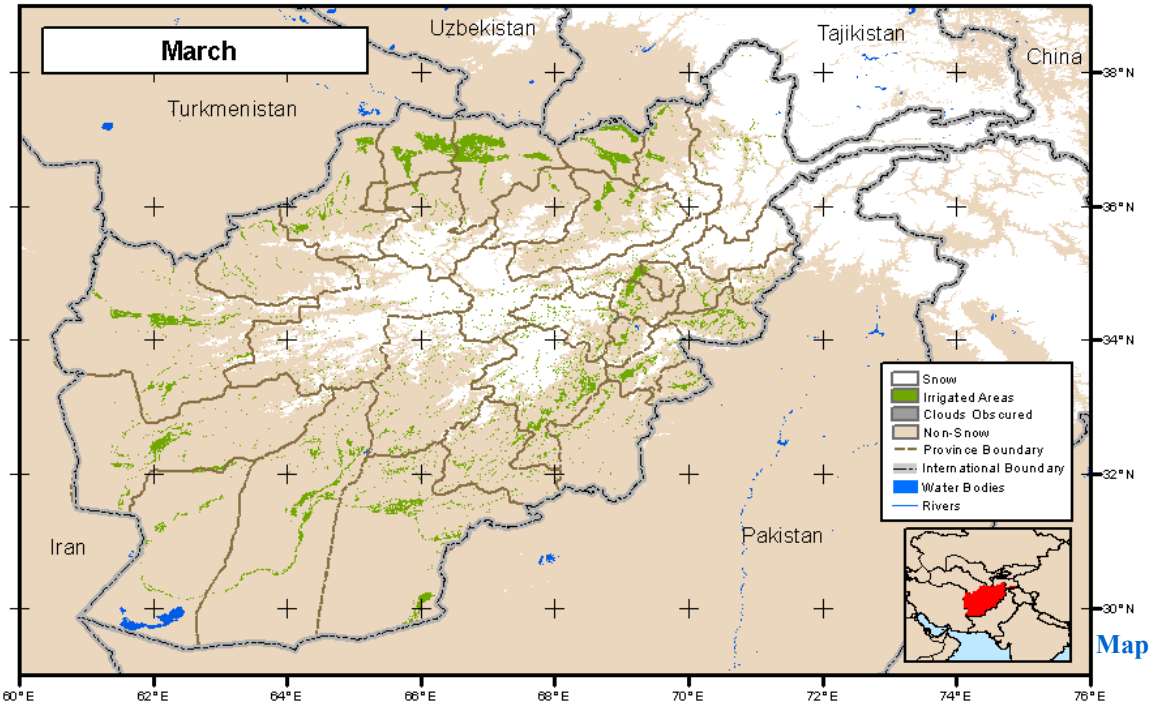
Map 6

Comparison of snow extent for the period of (March 22 – March 29) 2014 with the same period in 2013 (Map 5 - 6) shows slightly increase in snow extent during the above mentioned period of time over the same period of time in 2013.

Data Source:USGS



Map 7



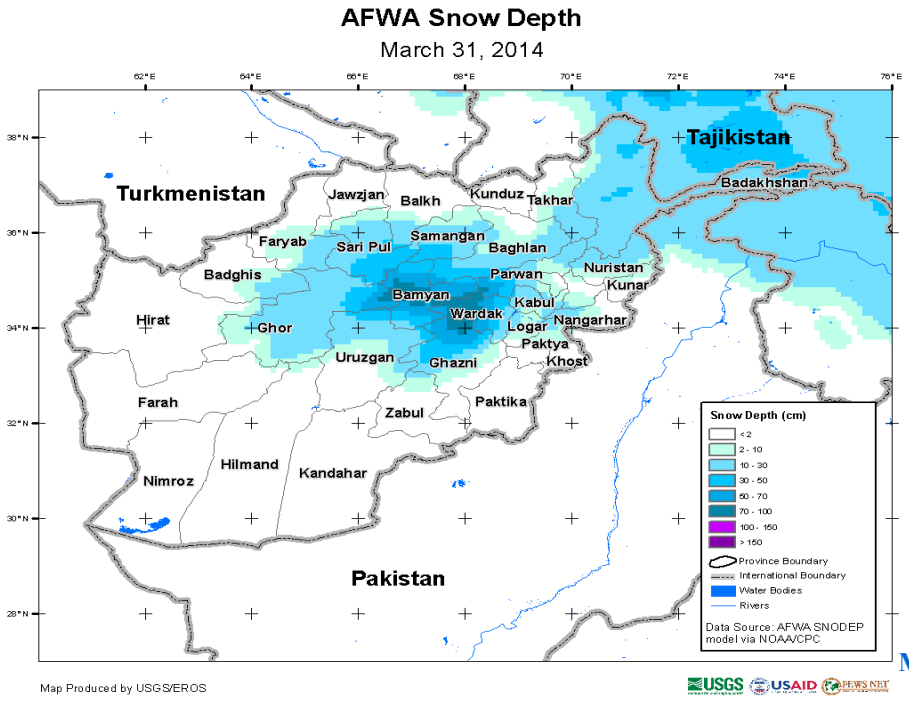
Map 8

Map created by USGS/EROS

USGS USAID FEWS NET

Comparison of snow extent for the month of March 2014, with the same month of long term average (Map 7-8) shows slightly increase in snow extent during the month of March 2014, over the same month of long term average.

Data Source:USGS



Map 9

Map (9) shows snow depth for the end of March 2014. As map (9) shows the snow depth has been recorded from 70 to 100 cm in a few part of the central Highlands and 50 – 70 cm in most parts of Central Highlands, North East and North West.

Data Source:USGS

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